

Debora Di Caprio, Ph.D.

Current Affiliations:

Professor of Mathematics (Tenure Position)
Polo Tecnologico I.I.S.S. "G. GALILEI"
Bolzano, Italy

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debora.dicaprio@istruzione.it

Visiting Researcher
Department of Mathematics and Statistics,
York University, Toronto, Canada

Research member
ICEI and GRINEI
Universidad Complutense de Madrid, Spain

Date of Birth: April 15, 1975 **Place of Birth:** Capua (Caserta, Italy) **Citizenship:** Italian

Languages: ITALIAN (mother tongue), ENGLISH (proficient), SPANISH (good), GERMAN (basic)

Research Fields: Set-theoretic Topology; Hyperspace Topologies; Selection Theory; Orders. Mathematical Economics; Decision Theory; Utility and Choice Theory; Information Theory and Uncertainty; Information manipulation and strategic behavior; Game theory.

CURRICULUM VITAE ET STUDIORUM

EDUCATION

- Sept. 1993 - July 1997: **LAUREA Vecchio Ordinamento (B.Sc. + M.Sc.) in MATHEMATICS**
Seconda Università degli Studi di Napoli, Italy
Final marks 110/110 cum laude. Thesis supervisor: Prof. Giuseppe Di Maio.
- Sept. 1999 - July 2000: **MASTER of ARTS in MATHEMATICS**
York University, Canada
Supervisor: Prof. S. Watson.
- Sept. 2000 - May 2004: **DOCTORATE of PHILOSOPHY in MATHEMATICS**
York University, Canada
Dissertation supervisor: Prof. Stephen Watson.
- Sept. 2006 – May 2008: **S.S.I.S. (POSTGRADUATE SCHOOL OF SPECIALIZATION) in MATHEMATICS AND PHYSICS EDUCATION**
Free University of Bozen-Bolzano, Italy
Final marks 80/80 (full marks). Dissertation supervisor: Prof. Bruno D'Amore.

PRESENT AND PREVIOUS ACADEMIC POSITIONS

Since 2013:	Research Member	ICEI Universidad Complutense de Madrid, Spain
Since 2011:	Research Member	GRINEI Universidad Complutense de Madrid, Spain
Since 2009:	Member of the panel of reviewers	MATHEMATICAL REVIEWS AMERICAN MATHEMATICAL SOCIETY
2006-2010:	Post-doc Research Fellow (Assegno di ricerca) “Decision Theory” & “Mathematical Economics”	School of Economics and Management Free University of Bozen-Bolzano, Italy
Since 2005:	Seasonal Visiting Researcher	Department of Mathematics and Statistics York University, Canada
Since 2005:	Cultore della materia (Subject Expert) “Geometry”	Department of Mathematics Seconda Università degli Studi di Napoli Italy
Since 2004:	Contract Faculty Contract Professor “Decision Theory” (2010-2011) “Mathematics for Economists B” (2009-2010) Lecturer/T.A. “Economics II A” (Intermediate Microeconomics) (2009-2010) “Mathematics for Economists A” (2004-2009) “Mathematics for Economists B” (2004-2009)	School of Economics and Management Free University of Bozen-Bolzano, Italy
June 2004:	Visiting Scholar	Instituto de Matemáticas UNAM, Unidad Morelia, México
Fall 2003:	Contract Professor “Discrete Mathematical Structures”	Department of Mathematics and Statistics York University, Canada
2002-2003:	Research Fellow (Assegno di ricerca) “Set-theoretic Topology” & “Hyperspace Topologies”	Department of Mathematics Seconda Università degli Studi di Napoli Italy
2000-2001:	Research Fellow (Assegno di ricerca) “Set-theoretic Topology” & “Hyperspace Topologies”	Department of Mathematics Seconda Università degli Studi di Napoli Italy
1999-2004:	Teaching Assistant (see details in Teaching Activity section)	Department of Mathematics and Statistics York University, Canada

PRESENT AND PREVIOUS COLLEGE POSITIONS

Since 2005:	Professor “Mathematics”	Polo Tecnologico I.I.S.S. “G. GALILEI” BOLZANO, ITALY
2010-2011	Project Coordinator University and Job Orientation	Polo Tecnologico I.I.S.S. “G. GALILEI” BOLZANO, ITALY

PUBLICATIONS

Type	Total
Theses	3
Papers in Refereed International Journals	25
Papers in Conference Proceedings	1
Chapters in edited books	4
Papers in Working Paper Series	2
Book Reviews	4
Paper Reviews	30
Total	69

Theses

1. **LAUREA Thesis**, *ALCUNE OSSERVAZIONI SULLE TOPOLOGIE HIT-AND-MISS*, Seconda Università degli Studi di Napoli (Caserta, Italy), July 1997. **Supervisor:** Prof. G. Di Maio (Dept. Matematica).
2. **DOCTORATE of PHYLOSOPHY Dissertation**, *SELECTIONS, ORDERABILITY AND COMPLETE SYSTEMS: FORMALLY CONVEX-VALUED MULTIFUNCTIONS, MINIMUM MAPS AND THE TIGHTNESS OF UPPER HYPERSPACES*, York University (Toronto, ON, Canada), April 2004. **Supervisor:** Prof. S. Watson (Dept. Mathematics & Statistics). **External Committee Member:** Prof. S. Garcia-Ferreira (Instituto de Matematicas, UNAM, Unidad Morelia, México).
3. **POSTGRADUATE SCHOOL OF SPECIALIZATION Dissertation**, *LA RETTA: DALLE EQUAZIONI ALLA GEOMETRIA ANALITICA*, Free University of Bozen-Bolzano (Bolzano, Italy), May 2008. **Supervisor:** Prof. B. D’Amore (Dept. Matematica, Università degli Studi di Bologna).

Papers in Refereed International Journals

1. D. Di Caprio, E. Meccariello, Notes on Separation Axioms in Hyperspaces, *Questions and Answers in General Topology*, 18 (2000), 65–86.
2. D. Di Caprio, E. Meccariello, G-Uniformities, LR-Proximities and Hypertopologies, *Acta Mathematica Hungarica*, 88 (1-2) (2000), 73–93.

3. D. Di Caprio, S. Watson, Orderability and continuous selections for Wijsman and Vietoris hyperspaces, *Applied General Topology*, 4 (2) (2003), 361–376.
4. D. Di Caprio, S. Watson, Continuous Selections and purely topological convex structures, *Topology Proceedings*, 29 (1) (2005), 75–103.
5. D. Di Caprio, Complete systems, elementary submodels and the tightness of upper hyperspaces, *Topology and its Applications*, 153 (14) (2006), 2680–2702.
6. D. Di Caprio, F.J. Santos Arteaga, Error-Induced Certainty Equivalents: A Set-Theoretical Approach to Choice under Risk, *International Journal of Contemporary Mathematical Sciences*, 3 (23) (2008), 1121–1131.
7. D. Di Caprio, F.J. Santos Arteaga, An Optimal Information Gathering Algorithm, *International Journal of Applied Decision Sciences*, 2 (2) (2009), 105–150.
8. D. Di Caprio, F.J. Santos Arteaga, Information Multifunctions and Continuously Representable Induced Preferences, *International Journal of Contemporary Mathematical Sciences*, 4 (19) (2009), 929–940.
9. D. Di Caprio, F.J. Santos Arteaga, Rationalizing Random Choice Errors via Multifunctions and Selection Processes, *Advances and Applications in Mathematical Sciences*, 1 (2) (2009), 335–350.
10. D. Di Caprio, F.J. Santos Arteaga, Homotopies on Preferences under Asymmetric Information, *International Journal of Mathematics, Game Theory and Algebra*, 18 (6) (2010), 537–555.
11. D. Di Caprio, F.J. Santos Arteaga, Lexicographic Preferences Induced in Asymmetric Information Environments, *Communications in Mathematics and Applications*, 1 (1) (2010), 1–14.
12. D. Di Caprio, F.J. Santos Arteaga, S. Watson, Incomplete Information and Lexicographic Choices: Some Continuity Results, *Canadian Applied Mathematics Quarterly*, 18 (2) (2010), 115–136.
13. D. Di Caprio, F.J. Santos Arteaga, Hidden Equilibria in Coordination Games with Heterogeneous Information Sets: The Case of Bank Runs, *International Journal of Applied Mathematics*, 23 (4) (2010), 597–627.
14. D. Di Caprio, F.J. Santos Arteaga, Banks as Creators and Transmitters of Information in Historical Perspective, *Vie & Sciences Economiques*, 185–186 (2010).
15. D. Di Caprio, F.J. Santos Arteaga, Strategic Diffusion of Information and Preference Manipulation, *International Journal of Strategic Decision Sciences*, 2 (2) (2011), 1–19.
16. D. Di Caprio, F.J. Santos Arteaga, Search Aversion, *International Journal of Pure and Applied Mathematics*, 72 (1) (2011), 39–48.
17. D. Di Caprio, F.J. Santos Arteaga, Cardinal versus Ordinal Criteria in Choice under Risk with Disconnected Utility Ranges, *Journal of Mathematical Economics*, 47 (4-5) (2011), 588–594.

18. D. Di Caprio, F.J. Santos Arteaga, Financial Transparency and Bank Runs, *Applied Mathematical Sciences*, 77 (6) (2012), 3839–3844.
19. D. Di Caprio, F.J. Santos Arteaga, Endogenously unstable demand deposit contracts: triggering bank runs without sunspots, *Bank and Bank Systems*, 7 (2) (2012), 19–35.
20. D. Di Caprio, F.J. Santos Arteaga, Climbing Quality Ladders and the Evolution of Technology Dynamics: rethinking the role of demand in technological change, *International Journal of Operational Research* (Accepted Manuscript 2012). *Forthcoming*.
21. I. Alvarez, D. Di Caprio, F.J. Santos Arteaga, Technological assimilation and divergence in times of crisis, *Technological and Economic Development of Economy* (Accepted Manuscript 2013). *Forthcoming*.
22. D. Di Caprio, F.J. Santos Arteaga, M. Tavana, The Optimal Sequential Information Acquisition Structure: A Rational Utility-Maximizing Perspective, *Applied Mathematical Modelling* (Accepted Manuscript 2014). *In press*.
23. F.J. Santos Arteaga, D. Di Caprio, M. Tavana, A Self-Regulating Information Acquisition Algorithm for Preventing Choice Regret in Multi-Perspective Decision Making, *Business & Information Systems Engineering* (Accepted Manuscript 2014). *In press*.
24. D. Di Caprio, F.J. Santos Arteaga, M. Tavana, Information Acquisition Processes and their Continuity: Transforming Uncertainty into Risk, *Information Sciences* (Accepted Manuscript 2014). *In press*.
25. D. Di Caprio, F.J. Santos Arteaga, M. Tavana, An Optimal Sequential Information Acquisition Model Subject to a Heuristic Assimilation Constraint, *Benchmarking: An International Journal* (Accepted Manuscript 2014). *In press*

Papers in Conference Proceedings

1. D. Di Caprio, F.J. Santos Arteaga, *Optimal Information Gathering Processes: Algorithmic Learning and Rational Herds*, Proceedings of the FIRST CONFERENCE OF THE EUROPEAN REGION of the DECISION SCIENCES INSTITUTE (EDSI), IESE Business School, Barcelona, Spain, July 2nd-3rd, 2010.

Chapters in edited books

1. J.G. Brida, D. Di Caprio, F.J. Santos Arteaga. *Learning Cycles and Convergence Clubs*. In: I. Perrotini and F. Zaher (Eds.), **Studies of Sweden and Mexico: Economics, Finance, Trade and Environment**, University of Skovde, 2007.
2. D. Di Caprio, F.J. Santos Arteaga, *Homotopies and the Instability of Economic Equilibrium*. In: P.G. Chareton (Ed.), **Computational Mathematics: Theory, Methods and Applications**, Nova Publishers, Inc, New York, 2010.
3. D. Di Caprio, F.J. Santos Arteaga, *Homotopies on Preferences under Asymmetric Information*. In: Jordan I. Campbell (Ed.), **Perspectives in Applied Mathematics**, Nova Publishers, Inc, New York, 2011.

4. D. Di Caprio, F.J. Santos Arteaga, *Strategic Diffusion of Information and Preference Manipulation*. In: M. Tavana (Ed.), **Management Theories and Strategic Practices for Decision Making**, IGI Global, 2012.

Papers in Working Paper Series

1. D. Di Caprio, F.J. Santos Arteaga, *Continuous Lexicographic Choice Through Incomplete Information*, Working paper no.52 (March 2007), School of Economics and Management, Free University of Bozen-Bolzano.
2. D. Di Caprio, F.J. Santos Arteaga, *Rationally induced choice errors: error multifunctions and generalized certainty equivalents*, Working paper no.53 (October, 2007), School of Economics and Management, Free University of Bozen-Bolzano.

Book and Paper Reviews

Book Reviews:

1. J.E. Jayne - A. Rogers, "Selectors", Princeton University Press, 2002.
Published in *September 2003 CMS Notes*. Co-reviewer: S. Watson.
2. T.M. Williams, K. Samset, K.J. Sunnevåg (Eds.), "Making Essential Choices with Scant Information", Palgrave MacMillan, 2009.
Published in *International Journal of Strategic Decision Sciences*, 1(2)(2010), 113-115.
3. J. Väänänen, "Models and Games" (Cambridge Studies in Advanced Mathematics), Cambridge University Press, 2011.
Published in *Mathematical Reviews*. Co-reviewer: F.J. Santos Arteaga.
4. B. Batiz-Lazo, J.C. Maixe-Altes, P. Thomes, "Technological Innovation in Retail Finance: International Historical Perspectives", New York, Routledge, 2011.
Published in *Revista de Historia Industrial*. Co-reviewer: F.J. Santos Arteaga.

Paper Reviews published in *Mathematical Reviews* (American Mathematical Society):

1. J. Roitman, "More paracompact subspaces of $\square(\omega+1)^\omega$ ", *Topology Proceedings* **34** (2009), 53-76.
2. H. Ohta, "Przymusiński's characterization of countably Katětov spaces", *Topology Proceedings* **34** (2009), 147-159.
3. J. Krzempek, "Some examples of higher-dimensional rigid continua", *Houston Journal of Mathematics* **35** (2009), 485-500.
4. H. Herrlich, K. Keremedis, "Topological sums and products in **ZF**-set theory", *Topology and its Applications* **156** (2009), 1994-1999.
5. A.V. Arhangel'skii, "On topological structure of spaces that are mildly connected-cleavable over the reals", *Scientiae Mathematicae Japonicae* **70** (2009), 233-238.
6. I.V. Protasov, "Topologies on groups determined by right cancellable ultrafilters", *Comment. Math. Univ. Carolin.* **50** (2009), 135-139.

7. T. Fernández-Bayort, A. Quintero, "Homotopic properties of confluent maps in the proper category", *Topology and its Applications* **156** (2009), 2960-2970.
8. F.S. de Blasi, L. Górniewicz, G. Pianigiani, "Extension theorems and topological essentiality in α -weakly convex metric spaces", *Topological Methods in Nonlinear Analysis*. **34** (2009), 141-160.
9. C. Mouron, "A chainable continuum that admits a homeomorphism with entropy of arbitrary value", *Houston Journal of Mathematics* **35** (2009), 1079-1090.
10. L.F. Aurichi, " D -spaces, topological games, and selection principles", *Topology Proceedings* **36** (2010), 107-122.
11. J. Camargo, "Openness of induced maps and homeomorphisms", *Houston Journal of Mathematics* **36** (2010), 199-213.
12. F.D. Tall, "On a core concept of Arhangel'skiĭ", *Topology and its Applications* **157** (2010), 1541-1547.
13. W.T. Ingram, "Inverse limits with upper semi-continuous bonding functions: problems and some partial solutions", *Topology Proceedings* **36** (2010), 353-373.
14. L. Bovens, W. Rabinowicz, "The puzzle of the hats", *Synthese* **172** (2010), 57-78.
15. J. Jia, J.S. Dyer, "Decision making based on risk-valued tradeoffs". In: *The mathematics of preference, choice and order*, 59-72, Stud. Choice Welf., Springer, Berlin, 2009.
16. M. Morayne, M.R. Wójcik, "A nonseparably connected metric space as a dense connected graph". *Houston Journal of Mathematics* **36** (2010), 1227-1232.
17. O. Finkel, "On some sets of dictionaries whose ω -powers have a given complexity". *Mathematical Logic Quarterly*. **56** (2010), 452-460.
18. M. Kissine, "Misleading appearances: Searle on assertion and meaning". *Erkenntnis* **74** (2011), 115-129.
19. Y. Xu, W. Zhang, F. Zheng, "Optimal algorithms for the online time series search problem". *Theoretical Computer Science* **412** (2011), 192-197.
20. A. Benz, "Assertions in AFA set theory". *New approaches to classes and concepts*, 143-176. Stud. Log. (Lond.), 14, Coll. Publ., London, 2008.
21. D. Barman, A. Dow, R. Pichardo-Mendoza, "Complete separation in the random and Cohen models". *Topology and its Applications* **158** (2011), 1795-1801.
22. G. Cravo, "Logical termination of workflows: an interdisciplinary approach". *J. Numer. Anal. Ind. Appl. Math.* **5** (2011), 153-161.
23. P. Bartha, "Symmetry and the Brown-Freiling Refutation of the Continuum Hypothesis". *Symmetry* **3** (2011), 636-652.
24. E. Shmaya, "The determinacy of infinite games with eventual perfect monitoring". *Proceedings of the American Mathematical Society* **139** (2011), 3665-3678.
25. F. Herzberg, D. Eckert, "Impossibility results for infinite-electorate abstract aggregation rules". *Journal of Philosophical Logic* **41** (2012), 273-286.
26. J. Berger, H. Ishihara, E. Palmgren, P. Schuster, "A predicative completion of a uniform space". *Annals of Pure and Applied Logic* **163** (2012), 975-980.
27. W. Bossert, K. Suzumura, "Product filters, acyclicity and Suzumura consistency". *Mathematical Social Science* **64** (3) (2012), 258-262.
28. J.C. Candeal, "Subgroup independence conditions on preferences". *Soc. Choice Welf.* **39** (4) (2012), 847-853.

29. S. Heinsalu, "Equivalence of the information structure with unawareness to the logic of awareness". *J. Econom. Theory* **147** (6) (2012), 2453-2468.
30. A. Penta, "On the structure of rationalizability for arbitrary spaces of uncertainty". *Theoretical Economics* **8** (2013), 405-430. IN PREPARATION.

REFEREEING/REVIEWING ACTIVITY:

Reviewer for	<i>Mathematical Reviews</i>
	<i>International Journal of Strategic Decision Sciences</i>
Referee for	<i>Business & Information Systems Engineering</i>
	<i>Measurement</i>
	<i>Journal of Optimization Theory and Applications</i>
	<i>IEEE Transactions on Engineering Management</i>

INTERNATIONAL CONFERENCES AND SEMINARS

Papers and talks presented at international conferences and schools

1997 Ravello (Italy)	XXII SCUOLA ESTIVA DI FISICA MATEMATICA <u>Seminar title:</u> "La Congettura di Saint Venant sui Cilindri di Massima Rigidità Torsionale"
1998 Erice (Italy)	27 th course of the INTERNATIONAL SCHOOL OF MATHEMATICS on "Convergence and Topology" (Centro Ettore Majorana) <u>Talk title:</u> "Separation Axioms in Hyperspaces"
2001 Caserta (Italy)	INTERNATIONAL CONFERENCE "FUNCTION SPACES, PROXIMITIES AND QUASI-UNIFORMITIES" ON THE OCCASION OF SOM NAIMPALLY'S 70 BIRTHDAY (Seconda Università degli Studi di Napoli) <u>Talk title:</u> "Investigating the tightness of $(CL(X), t(F)+)$ using elementary submodels"
2003 Lubbock (Texas, U.S.A.)	SPRING TOPOLOGY AND DYNAMICAL SYSTEMS CONFERENCE Special section on General Topology (Texas Tech University) <u>Talk title:</u> "Orderability and continuous selections for Wijsman and Vietoris hyperspaces"
2003 Brooklyn (NY, U.S.A.)	CONFERENCE IN HONOR OF A. V. ARHANGELSKII (Brooklyn College) <u>Talk title:</u> "Coherence and continuous selections"
2003 Washington DC (U.S.A.)	2003 SUMMER CONFERENCE ON TOPOLOGY AND ITS APPLICATIONS (Howard University) <u>Talk title:</u> "Formal n -convexity, n -paracompactness and continuous selections"
2006 Vienna (Austria)	21st ANNUAL CONGRESS of the EUROPEAN ECONOMIC ASSOCIATION (University of Vienna) <u>Paper presented:</u> "Continuous Lexicographic Choice Through Incomplete Information"

- 2006
Oviedo
(Spain)
XXXI SIMPOSIO DE ANALISIS ECONOMICO
(University of Oviedo)
Paper presented: “Continuous Lexicographic Choice Through Incomplete Information”
- 2008
Milan
(Italy)
23rd ANNUAL CONGRESS of the EUROPEAN ECONOMIC ASSOCIATION
(Università Bocconi)
Paper presented: “Error Multifunctions and Selection Processes”
- 2008
Brunico
(Italy)
CONSUMER BEHAVIOR IN TOURISM SYMPOSIUM 2008
(Free University of Bozen-Bolzano)
Paper presented: “Rational consumers, learning and choice manipulation”
Presenter: Francisco J. Santos Arteaga (coauthor)
- 2009
Ischia
(Italy)
9th SAET CONFERENCE ON CURRENT TRENDS IN ECONOMICS
(University of Naples Federico II)
Paper presented: “Homotopies on preferences under asymmetric information”
- 2009
Valencia
(Spain)
XXXIV SIMPOSIO de la ASOCIACION ESPAÑOLA DE ECONOMIA (SAEe)
(Universitat de València)
Paper presented: “Homotopies on preferences under asymmetric information”
- 2010
Vienna
(Austria)
WORKSHOP ON RISK, AMBIGUITY, AND DECISIONS IN HONOR OF DANIEL
ELLSBERG (Institute for Advanced Studies)
Paper presented: “Cardinal versus Ordinal Criteria in Choice under Risk with Disconnected Utility Ranges”
- 2010
Rimini
(Italy)
GLUNLAB3 within the RIMINI CONFERENCE IN ECONOMICS AND FINANCE
(Università di Bologna)
Paper presented: “Optimal Labour Allocation, Migration Patterns and Economic Growth in Common
Markets: The Effects of Technological Assimilation and Learning”
Presenter: Francisco J. Santos-Arteaga (coauthor)
- 2010
Barcelona
(Spain)
FIRST CONFERENCE OF THE EUROPEAN REGION OF THE DECISION
SCIENCES INSTITUTE EDSI (IESE Business School)
Paper presented: “Optimal Information Gathering Processes: Algorithmic Learning and Rational Herds”
- 2010
Barcelona
(Spain)
ALGEBRA MEETS TOPOLOGY: ADVANCES AND APPLICATIONS
(Universitat Politècnica de Catalunya – BarcelonaTech)
Talk title: “Incomplete information sets and incomplete decisions trees: a continuous correspondence”
- 2011
Madrid
(Spain)
SASE (Society for the Advancement of Socio Economics) 23rd Annual Meeting
(Universidad Autonoma de Madrid)
Paper presented: “Optimal Labour Allocation, Migration Patterns and Economic Growth in Common
Markets: The Effects of Technological Assimilation and Learning”
Presenter: Francisco J. Santos-Arteaga (coauthor)
- 2011
Seville
(Spain)
X Congreso Internacional de la AEHE
(Universidad Pablo de Olavide)
Paper presented: “The Schumpeterian Banking Crisis: the collapse at the beginning of the 21st century in
historical perspective”
Presenter: Santiago Lopez

- 2011
Iowa City
(U.S.A.) NSF/NBER/CEME Conference in Mathematical Economics and General Equilibrium Theory (Henry B. Tippie College of Business, University of Iowa)
Paper presented: “Expected Utility and Equilibrium with Subjective Choice Sets and Strategic Reporting”
Presenter: Jack Douglas Stecher (coauthor)
- 2012
Budapest
(Hungary) SING8 The 8th Spain-Italy-Netherlands Meeting on Game Theory (Corvinus University)
Paper presented: “Expected Utility and Equilibrium with Subjective Choice Sets and Strategic Reporting”
Presenter: Jack Douglas Stecher (coauthor)
- 2013
Rimini
(Italy) 4th Rimini Workshop on Developments in Macro and Growth (Università di Bologna at Rimini)
Paper presented: Technology Development, Knowledge Assimilation and Innovation: A European Perspective
Presenter: Francisco J. Santos-Arteaga (coauthor)

Other participations to conferences and schools

- 2000, Istanbul (Turkey) THE FIRST TURKISH INTERNATIONAL CONFERENCE ON TOPOLOGY AND ITS APPLICATIONS
- 2000, Toronto (ON, Canada) 957th AMS MEETING - Special Section on Set Theory and Set-theoretic Topology
- 2001, Prague (Czech Republic) 9TH PRAGUE TOPOLOGICAL SYMPOSIUM
- 2005, Toronto (ON, Canada) MINI-CONFERENCE IN SET THEORY (Fields Institute – University of Toronto)
- 2005, Bolzano (Italy) WORKSHOP on DECISION AND FINANCE (Free University of Bozen-Bolzano)
- 2005, Bolzano (Italy) SUMMER SCHOOL on GAME THEORY AND ITS APPLICATIONS (Free University of Bozen-Bolzano)
- 2007, Bolzano (Italy) V WORKSHOP del Gruppo di Attenzione e Comunicazione ai mercati finanziari (Free University of Bozen-Bolzano)
- 2009, Bolzano (Italy) Research Seminar on INNOVATION SYSTEMS, COMPLEX SYSTEMS AND SUSTAINABLE DEVELOPMENT (Free University of Bozen-Bolzano)

Other papers accepted at international conferences and schools

- “Generalized Certainty Equivalents” (coauthor: F.J. Santos-Arteaga) accepted at the 2nd INTERNATIONAL SYMPOSIUM ON ECONOMIC THEORY, POLICY AND APPLICATIONS – Athens Institute for Education and Research Athens, Greece, August 6 – 9, 2007
- “Optimal Information Gathering Processes: Algorithmic Learning and Rational Herds” (coauthor: F.J. Santos-Arteaga) accepted at the 23rd EUROPEAN CONFERENCE ON OPERATIONAL RESEARCH (EURO XXIII) – Gustav-Stresemann Institute Bonn, Germany, July 5 - 8, 2009

Seminar Presentations

- June 20, 2000 Department of Mathematics and Statistics, York University (Toronto, Canada) Seminar title: “A Ramsey Theorem for Polyadic Spaces” (based on an article by M. Bell from 2000 - M.A. seminar)

July 18, 2000	Department of Mathematics and Statistics, York University (Toronto, Canada)	<u>Seminar title:</u> “On spaces of closed subsets of bicomacts” (based on an article by L.B. Sapiro from 1976 - M.A. seminar)
Sept. 18, 2002	Dipartimento di Matematica, Seconda Università degli Studi di Napoli (Caserta, Italy)	<u>Seminar title:</u> “Elementary Submodels: some applications to topology”
Nov. 13, 2002	Department of Mathematics and Statistics, York University (Toronto, Canada)	<u>Seminar title:</u> “Orderability and continuous selections for hyperspaces” (Dissertation Subject Oral)
April 28, 2003	Fields Institute - University of Toronto (Toronto, Canada)	<u>Seminar title:</u> “Orderability and continuous selections for Wijsman and Vietoris hyperspaces, I”
May 14, 2003	Fields Institute - University of Toronto (Toronto, Canada)	<u>Seminar title:</u> “Orderability and continuous selections for Wijsman and Vietoris hyperspaces, II”
Apr. 8, 2004	Department of Mathematics and Statistics, York University (Toronto, Canada)	<u>Seminar title:</u> “Selections, Orderability and Complete Systems” (Dissertation Oral Examination)
June 2004	Instituto de Matemáticas, UNAM, Unidad Morelia (México)	<u>Seminar title:</u> “Orderability and continuous selections”
Dec. 11, 2006	Departamento de Economía e Historia Económica, Universidad de Salamanca (Salamanca, Spain)	<u>Seminar title:</u> “Continuous Lexicographic Choice Through Incomplete Information”

DETAILS OF RESEARCH AND TEACHING ACTIVITY

Research Activity And Scholarships:

1999/2000:	Six Months Postgraduate Scholarship for studying abroad (Borsa di studio semestrale per attività di perfezionamento all'estero) Dipartimento di Matematica, Seconda Università degli Studi di Napoli, Italy. Department of Mathematics and Statistics, York university, Canada
2000/2001:	RESEARCH FELLOW (Assegnista di ricerca) Dipartimento di Matematica, Seconda Università degli Studi di Napoli, Italy. Project Title: <i>Hyperspaces (via proximity spaces): cardinal functions.</i>
2002/2003:	RESEARCH FELLOW (Assegnista di ricerca) Dipartimento di Matematica, Seconda Università degli Studi di Napoli, Italy. Project Title: <i>Hyperspaces and their cardinal functions via elementary submodels.</i>
2000/2001 – 2003/2004:	INTERNATIONAL SCHOLARSHIP York university, Canada

2006/2007 – 2009/2010: POST-DOC RESEARCH FELLOW (Assegnista di ricerca)
School of Economics and Management, Free University of Bozen-Bolzano, Italy
Project Title: *Information sets, lexicographic choices and irrational behaviors from both a deterministic and stochastic point of view.*

Since July 2011 RESEARCH MEMBER
GRINEI (Grupo de Investigacion en Economía y Política de la Innovación)
Universidad Complutense de Madrid, Spain

Since June 2013 RESEARCH MEMBER
ICEI (Instituto Complutense de Estudio Internacionales)
Universidad Complutense de Madrid, Spain

Invited Research Visiting:

June 2004 Instituto de Matemáticas, UNAM, Unidad Morelia, México
Collaboration with Prof. S. Garcia-Ferreira

Feb./Mar. 2005 Department of Mathematics and Statistics, York University, Toronto, Canada
July/Aug. 2007 Collaboration with Prof. S. Watson
January 2009
July/Aug. 2010

Projects And Collaborations:

2005-2007: Project: Dynamical Regimes in Economics: modeling and statistical tools
Institution: FREE UNIVERSITY OF BOZEN-BOLZANO, ITALY

Since 2009: Project: The Legacy of R.L. Moore.
Institution: Archive of American Mathematics
The Dolph Briscoe Center for American History
UNIVERSITY OF TEXAS at AUSTIN

Teaching Activity:

1999/2000 – 2003/2004 Teaching Assistant
Department of Mathematics and Statistics, York University, Canada

Courses: Introduction to Calculus; Introduction to Vector Calculus; Introduction to Mathematical Analysis; Linear Algebra I (with honours); Linear Algebra II (with honours); Linear Algebra with Applications I; Linear Algebra with Applications II; Introduction to Logic; Sets and Logic; Geometry; Introduction to Graph Theory; Introduction to Discrete Mathematics; Discrete Mathematical Structures; Mathematics Tutorial Lab.

Audience: Mathematics, Computer Science and ITEC bachelor students.

Official teaching language: ENGLISH.

2003/2004 Contract Professor
Department of Mathematics and Statistics, York University, Canada

Course: Discrete Mathematical Structures

Audience: Mathematics, Computer Science and ITEC bachelor students.

Official teaching language: ENGLISH.

2004/2005 – 2009/2010 Lecturer/Teaching Assistant
School of Economics and Management, Free University of Bozen-Bolzano, Italy

Courses:

1. Mathematics for Economists A (Oct. 2004 – Sept. 2009);
2. Mathematics for Economists B (Oct. 2004 – Sept. 2009);
3. Economics II A - Intermediate Microeconomics (Oct. 2009 – Sept. 2010).
Bachelor of Science in Economics and Management (Majors: Economics and Management; Business Studies).
Bachelor of Science in Economics and Social Sciences (Philosophy, Politics and Economics).
Official teaching language: ENGLISH.

2009/2010 – 2010/2011 Contract Professor
School of Economics and Management, Free University of Bozen-Bolzano, Italy

Courses:

1. Mathematics for Economists B (Oct. 2009 – Sept. 2010)
Bachelor of Science in Economics and Management (Majors: Tourism Management; Sport & Event Management)
Official teaching language: ITALIAN.
2. Decision Theory (Oct. 2010 – Sept. 2011)
Bachelor of Science in Economics and Management (Majors: Economics and Management; Business Studies).
Official teaching language: ENGLISH.

2005/2006 – to today Professor of Mathematics
Polo Tecnologico I.I.S.S. “G. GALILEI”, Bolzano, Italy

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